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ORGANIC; ELECTROLUMINESCENT; LAMINATE; LAYER; TRANSPARENT; SUBSTRATE;
THROUGH; GEL; LAYER

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Organic electroluminescent element has color filter formed on the interior of sealing cap, on whose peripheral surface an overcoat film is formed

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Patent Family:

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JP 2001126862	A	20010511	JP 99301980	A	19991025	200143 B

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Patent Details:

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JP 2001126862	A		4	H05B-033/04	

Abstract (Basic): JP 2001126862 A

NOVELTY - Organic electroluminescent (EL) element has a cathode (4), organic EL layer (5), glass substrate (1), sealing cap (2) and the seal (3). A color filter (7) is formed on the interior of a sealing cap. An overcoat film is formed on the peripheral surface of the color filter.

USE - Organic electroluminescent element.

ADVANTAGE - Damage to light emission mechanism of an organic EL device by reception of moisture content and the degassing discharged from color filter or black matrix are prevented. Hence the durability of an organic EL device is increased.

DESCRIPTION OF DRAWING(S) - The figure shows sectional view of the organic EL device.

Glass substrate (1)

Sealing cap (2)

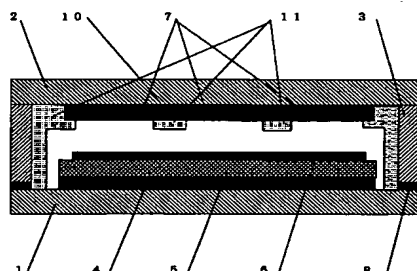
Seal (3)

Cathode (4)

EL electroluminescent layer (5)

Color filter (7)

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Title Terms: ORGANIC; ELECTROLUMINESCENT; ELEMENT; FILTER; FORMING;
INTERIOR; SEAL; CAP; PERIPHERAL; SURFACE; OVERCOAT; FILM; FORMING
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ORGANIC EL ELEMENT

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INVENTOR(s): TADOKORO TOYOYASU
APPLICANT(s): NIPPON SEIKI CO LTD
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ABSTRACT

PROBLEM TO BE SOLVED: To provide a low-cost organic EL element with simplified manufacturing process which does not generate leakage current nor cross-talk and maintains stable luminescent characteristics for a long period.

SOLUTION: With the organic EL element 1 containing a laminate 10 pinching an organic layer 8 with a transparent electrode (anode) 3 and a back plate (cathode) 9 in a sealed vessel 12 shutting off outside air, the sealed vessel 12 is provided with a storage space S for containing the laminate 10, in which, a drying means 14 is sealed for maintaining a powder state even if moisture is absorbed.

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